

The effect of pressure on the equilibrium in the Diels-Alder reaction between 9-chloroanthracene and tetracyanoethylene

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Abstract

Equilibrium constants for the Diels-Alder reaction of 9-chloroanthracene with tetracyanoethylene have been determined in the pressure range 0-970 kg cm⁻² in 1,2-dichloroethane at 298 K and the value of the reaction volume (-20.6 ± 1.5 cm³ mol⁻¹) has been compared with the difference in partial molar volume of the dienophile (107.8 ± 0.2), diene (170.7 ± 0.5) and adduct (255.5 ± 1.5 cm³ mol⁻¹).
